



CONNECTING PAPER TO TECHNOLOGY

Solutions for

PAPER MANUFACTURING, TRADING & PRINTING



ABOUT US

SKB-Tech Trade operates as a global trade agency for technical equipment and industrial requirements. We are a strong partner of the paper industry and offer our customers technologically valuable products as well as best service. From our office in Vienna, Austria we serve our customers worldwide.

Our core competency lies in the global sale of products in need of explanation. Due to the simple but powerful structures, our trade agency works with leading manufacturers to specifically address the requirements of dynamic markets and serve them effectively.

Solutions for

RUNNABILITY & COST EFFICIENT PAPER PRODUCTION

STOCK PREPARATION & RAW MATERIAL TESTING

PAPER MANUFACTURING, TRADING & PRINTING

MAINTENANCE & INSTALLATION OF INDUSTRIAL MACHINERY



Your contact person:

Mr. Stefan Kurzböck
Email: stefan@skb-techtrade.com
Mobile: 0043 664 32 33 719



HANDHELD DEVICES

PM3 & PM4

PM3 and PM4 Handheld devices are for the determination of absolute water content for paper on reels. (pic of paper on reel).

PM3 inspection of processors like printing presses, corrugated board fabricators and paper traders

PM4 has the basic functions of PM3 and is additionally equipped with an Infrared temperature sensor. Therefore the device is compensations different temperature conditions automatically. This function makes the device suitable for measurements at various positions.

Both devices measure the water content of paper without destroying the material. Through inputs measurements the water content will be measured in a depth up to 50mm inside the material.

PM4

- Measuring range: 1 to 25% water content
- Resolution: 0.1% water content
- Measuring depth: 50mm
- Paper temperature for determination of water content: 0 to +80°C / 32 to 176°F
- Contact-free infrared temperature measurement with 90° optics
- Infrared temperature measurement -25 to +125°C / -13 to 257 °F
- Automatic temperature compensation
- Temperature can be set to °C or °F as required
- Measurement within seconds without prior treatment of samples
- Hold function
- Manual saving of results, autodatalog for 10.000 logs with measuring point report
- Large, well-lit LC display
- Scope of supply: humimeter PM4 paper analyzer with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, plastic case, proof plate, rechargeable batteries

RH5 & RH6

RH5 and RH6 are paper moisturemeters for sheeted papers. By using its long sensor the moisture can be determined in the middle of a paper stack. Additionally both devices can be used for automatically monitoring the climate of printing rooms and paper stockrooms. Both devices measure the water content of paper without destroying the material.

RH6

- Relative air humidity 0 to 100%, resolution 0.1% rh
- Calibration 10 to 90% ±1.5% rh (at 25°C)
- Temperature can be set to °C or °F as required
- Temperature -10 to +60°C, resolution 0.1°C, 14 to 140°F
- Calibration ±0.3°C (at 25°C)
- Dew point -55 to +60°C, resolution 0.1°C, -67 to 140°F
- Absolute air humidity 0 to 130 g/m³, resolution 0.1g/m³
- Customer calibration function
- Hold function, manual saving of results
- Online function
- Automatic datalog for up to 10,000 logs with measuring point report, suppliers' data can be recorded
- Sword sensor length 30 cm
- Scope of supply: humimeter RH6 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, wooden case and batteries
- Optional: printer



PM3

- Measuring range 1% to 25% water content, dependent on the type
- Resolution: 0.1% water content
- Measuring depth: 50mm
- Paper temperature: 0 to +60°C / 32 to 140 °F
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Measurement within seconds without prior treatment of samples
- Sample temperature measurement
- Hold function
- Manual saving of results
- Datalog for 10.000 logs with measuring point report
- Large, well-lit LC display
- Scope of supply: humimeter PM3 moisture meter for paper with rubber protection cover, plastic case, proof plate and batteries



RH5

- Relative air humidity 0 to 100%, resolution 0.1% RH
- Calibration 10 to 90% +/-1.5%RH (at 25°C)
- Temperature can be set to °C or °F as required
- Temperature -10 to +60°C, resolution 0.1°C, 14 to 140°F
- Calibration +/- 0.3°C (at 25°C)
- Dew point -55 to +60°C, resolution 0.1°C, -67 to 140°F
- Hold function, manual saving of results
- Automatic data log for up to 10,000 logs with measuring point report
- Scope of supply: humimeter RH5 with rubber protection cover, wooden case and batteries

RP6 – MOISTURE METER FOR RECYCLING PAPER

Easy, quick and non-destructive moisture meter for detecting the determination of water content in recycling paper and for the detection of moisture spots. Expandable with optional air humidity and temperature sensor.

The humimeter RP6 can be connected with an air humidity and temperature sensor in order to measure environmental parameters and other paper key gures quickly and efficiently.

Measuring procedure:

Start your humimeter RP6 by pushing the black button on the handle of the device. Choose the right calibration curve (e.g. 350 recycling paper) and press the measuring plate against the recycling paper bale. The display immediately shows the water content and temperature. The measuring values can be stored at the humimeter RP6, additional information like suppliers data and notes can be added. The stored values can be sent to a PC if required. Furthermore the measuring results can be printed out on the spot via the optionally available portable thermo printer. For the determination of other relevant process parameters, a humidity and temperature sensor can be connected.






Applications for raw material testing:

- Quick & reliable check of water content of waste paper
- Highest precision trough measurement depth of 500mm
- Suitable for all grades of waste paper (adjustment of grades can be done on the device itself)
- Data can be easily proceeded to printer or Excel

Technical features:

- Measuring range: 1 to 50% water content (depending on the material)
- Resolution: 0.5% water content
- Measuring depth: max. 500mm
- Operation temperature: 0 to +50°C / 32 to 122°F
- Automatic temperature compensation
- Temperature can be set to °C or °F as required
- Large, well-lit LC-Display
- Measurement within seconds without prior treatment of samples
- Hold function, automatic datalog and manual saving for up to 10,000 logs with measuring point report
- Interface for the connection of external sensor
- Menu languages: English, German, Italian, French, Spanish, Russian,
- Protection class: IP64
- Scope of supply: humimeter RP6, humimeter USB data interface module with LogMemorizer measuring data recording and analysing PC software on USB ash drive incl. USB cable for PC, rechargeable batteries (Li-Ion 1950mAh) and plastic case

	<p>Thermo printer</p>
	<p>Plug-in sensor for loose material with conveyor belts</p>
	<p>Internal Bluetooth module</p>

Online moisture measurements

The measuring system PMCS allows an online moisture measurement of paper and paperboard. A measuring slide with the mounted measuring sensors moves on a carrier section across the paper web. It is possible to react on customer's request, if there are different sensors to ascertain different measuring sizes (absolute paper moisture, relative humidity, paper temperature..) needed.

A PLC with colored touchscreen calculates the measured data, controls the measuring slide and shows that on a display. The PLC has several interfaces, these interfaces allow a connection to another PC or other machines.

A specially programmed software visualizes the measured data in a 2D and/or 3D profile. The PC Software is easy in use and saves the measured data automatically in a database. After that the measured data could be analyzed.

Paper Machine applications:

- 2D humidity measurement (fixed position)
- 3D humidity measurement (travelling sensor)
- Universal Interface to control dryer's steam valve or other machinery parameters



Absolute moisture measurement:

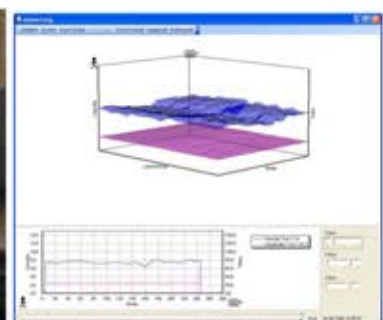
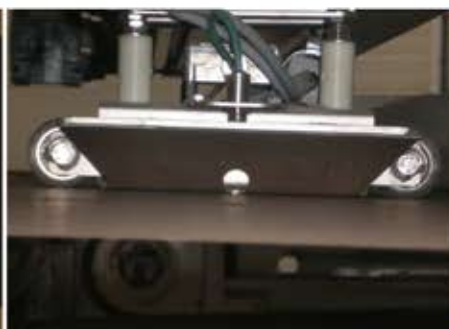
- Measurement range: 3 to 20% moisture
- Measurement system: dielectric
- Grammage range: 80 to 1200 g/m² (lower/higher on inquiry)
- Paper temperature: 10 to 45°C (higher on inquiry) or 50 to 113 °F (higher on inquiry)
- Ambient temperature: 10 to 45°C (higher on inquiry) or 50 to 113 °F (higher on inquiry)

Relative moisture measurement:

- Measurement range: 0 to 100% r.h.
- Ambient temperature: 10 to 45°C (higher on inquiry) or 50 to 113 °F (higher on inquiry)

Paper temperature measurement

- Measurement range: 0 to 200°C or 32 to 392°F
- Measurement system: infrared (non-contact)
- Ambient temperature: 10 to 45 °C (higher on inquiry) or 50 to 113 °F (higher on inquiry)



PMSA – SHEET ANALYZER

At-line moisture analyser with PC software for determination of water content of single paper sheets
The PMSA is a laboratory instrument for the determination of absolute water content of single paper sheets. Compared to the traditional kiln-drying method, the PMSA paper moisture analyser determines the water content within a few seconds. The PMSA can be used for analysing samples taken directly from the paper machine as well as for the incoming and exit control of paper sheets.

The analysis of the measuring results is effected on the PC – the intuitive software provides a user-friendly interface for the display of measuring values, calibration of further paper types and the management of measuring data. The state-of-the-art and long-term stable sensor technology guarantees precise measuring values and extremely high repeat accuracy. To ensure a maximum of accuracy, the system performs a self-calibration of the sensor before each measurement.

Applications for raw material testing:

- Paper grades from 30 to 800 GSM
- Recycling paper
- Dried Pulp



Technical features:

- Measuring range: 1 to 20 % absolute water content
- Resolution: 0.01%
- Grammage range: 30 to 800 g/m²
- Maximum paper thickness: 0.8 mm (higher range on request)
- Automatic temperature compensation
- Minimum paper size: 180 x 180 mm
- Temperature range: 0 to +50 °C / 32 to 122 °F
- Protection class: IP30
- Dimensions: 274 x 202 x 128 mm
- PC software in English and German
- Power supply and connection to PC: 5VDC (USB mini B connector)
- Scope of supply: PMSA moisture sensor incl. PMSA software on USB flash drive and USB cable
- PC not included
- Optional: weight scale for paper

KLK_50- CLIMATIC CHAMBER WITH MOISTURE MONITORING & MEASUREMENT SYSTEM

The climatic chamber which creates an atmosphere with a 100% controllable relative humidity. This allows different materials to be adapted to the required conditions. The handling is very simple and enables a fast conditioning time.

Features:




- Display shows measured moisture and target value
- Control range: 10 to 90% r.h.
- Resolution and setting step: 0.1% r.h.
- Power supply: 230 Volt
- Optional available with interface and date recording software
- Dimensions (outside): 380x600x200 mm, with a big size window

Applications:

- Precisely controlled sample conditions for further lab testing
- Reference testing for comparison of other moisture relevant devices & facilities



PRECISION SCALES

	<p>Precision scale 1000 g with a resolution of 0,01 g and PC-interface inclusive datalink cable(suitable for LabDry)</p> <ul style="list-style-type: none"> • weighing range [max]: 1000 g • reading precision [d]: 0.01 g • reproducibility: 0.01 g • linearity: +- 0.0 3g • weighing plate (bx): 130x130 mm
	<p>Precision scale 3500 g with a resolution of 0,01 g and calibration permission incl. calibration certificate, PC interface incl. datalink cable (suitable for LabDry)</p> <ul style="list-style-type: none"> • weighing range [max]: 3500 g • reading precision [d]: 0.01 g • calibration value: 100 mg • reproducibility: 0.01 g • linearity: +- 0,04 g • conversion into g/m² paper weight • weighing plate (bx): 195x195 mm
	<p>Paper grammage precision scale 240g with a resolution of 0,001g and PC interface incl. datalink cable</p> <ul style="list-style-type: none"> • weighing range [max]: 240 g • reading precision [d]: 0.001 g • reproducibility: 0.001 g • weighing plate Ø 106 mm with wind shield Ø 157 mm • optional software with connection to barcode scanner for a required material tracking (on customer request)

Packing solutions

PE-film for hot shrinkage applications
0,75 mm





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